

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): An [[A]]arrangement for hardening a coating of an object, in particular a vehicle body (12), said coating includingconsisting of a material that hardens under electromagnetic radiation, -in particular a UV lacquer or a thermally hardening lacquer, with the arrangement including

- a) at least one emitter (46, 48a, 48b, 52a, 52b) that generates electromagnetic radiation;
- b) a conveying system (14, 16) that transports the object [(12)] into the vicinity of and away from the emitter (46, 48a, 48b, 52a, 52b);

wherein characterised in that

the spatial orientation of the at least one emitter (46, 48a, 48b, 52a, 52b) or of a reflector [(55)] associated therewith can be changed by means of a motor.

2. (currently amended): Arrangement according to claim 1, wherein characterised in that a first emitter [(46)] extends within a plane that runs substantially parallel to a transporting plane of the conveying system [(14, 16)] and that the first emitter [(46)] can be driven by means of a motor in a direction [(62)] perpendicular to the transporting plane.

3. (currently amended): Arrangement according to claim 2, wherein characterised in that the arrangement comprises at least two further emitters (48a, 48b, 52a, 52b) that are arranged on both sides of a conveying stretch [(14)] of the conveying system [(14, 16)].

4. (currently amended): Arrangement according to claim 3, wherein characterised in that the at least two further emitters (48a, 48b, 52a, 52b) can be driven by means of a motor in directions [(54, 56)] perpendicular to a conveying direction of the conveying system [(14, 16)].

5. (currently amended): Arrangement according to claim 4, wherein characterised in that the at least two further emitters (48a, 48b, 52a, 52b) can in each case be tilted or swivelled [[(58)]] by means of a motor about an axis parallel to the conveying direction

6. (currently amended): Arrangement according to one of claim[[s]] 3, wherein to 5, characterised in that the emitters (46, 48a, 48b, 52a, 52b) are secured to a gantry [[(44)]] that spans a conveying stretch [[(14)]] of the conveying system [[(14, 16)]] in a bridge-like manner.

7. (currently amended): Arrangement according to claim 1, wherein one of the preceding claims, characterised in that the arrangement comprises a control device [[(74)]] by means of which the spatial orientation of the at least one emitter (46, 48a, 48b, 52a, 52b) or of the reflector [[(55)]] associated therewith can automatically be adapted to the contours of the object [[(12)]].

8. (currently amended): Arrangement according to claim 7, wherein characterised in that by means of the control device, [[(74)]] the spatial orientation of the at least one emitter (46, 48a, 48b, 52a, 52b) or of the reflector [[(55)]] associated therewith can be altered in such a way that, during a conveying movement of the object [[(12)]] past the at least one emitter (46, 48a, 48b, 52a, 52b), the amount of electromagnetic radiation incident per unit area on the material and its intensity in each case does not fall below predetermined threshold values necessary for the hardening.

9. (currently amended): Arrangement according to claim 8, wherein characterised in that the control device [[(74)]] is designed so that the amount of electromagnetic radiation incident per unit area on the material remains substantially constant.

10. (currently amended): Arrangement according to claim 8, wherein or 9, characterised in that the control device [[(74)]] includes a memory [[(76)]] for storing spatial data of the object [[(12)]].

11. (currently amended): Arrangement according to claim 1, wherein one of the preceding claims, characterised in that a measuring station [[(19)]] is located upstream of the at least one emitter (46, 48a, 48b, 52a, 52b) in the conveying direction, by means of which station the spatial data of the object [[(12)]] can be determined.

12. (currently amended): Arrangement according to claim 11, wherein characterised in that the measuring station comprises at least one light barrier.

13. (currently amended): Arrangement according to claim 11, wherein or 12, characterised in that the measuring station comprises a video camera and a device for digital image recognition.

14. (currently amended): Arrangement according to ~~one of claim[[s]]~~ 11, wherein to 13, ~~characterised in that~~ the measuring station [[(19)]] comprises at least one optical scanner [[(80)]] by means of which the object [[(12)]] can be scanned in at least one direction.

15. (currently amended): Arrangement according to claim 14, wherein characterised in that the optical scanner [[(18)]] comprises an infrared light source.

16. (currently amended): Arrangement according to claim 1, further comprising one of the preceding claims, characterised in that it comprises a housing [[(24)]] that is at least virtually gas-tight and impermeable to electromagnetic radiation, into the interior [[(32)]] of which the object [[(12)]] can be introduced and in which the at least one emitter (46, 48a, 48b, 52a, 52b) is arranged.

17. (currently amended): Arrangement according to claim 16, wherein characterised in that a protective gas can be fed into the interior [[(32)]] of the housing [[(24)]].

18. (currently amended): Arrangement according to claim 17, wherein characterised in that the protective gas is heavier than air ~~and is in particular carbon dioxide~~.

19. (currently amended): Arrangement according to claim 18, wherein characterised in that the protective gas is lighter than air ~~and is in particular helium~~.

20. (currently amended): Arrangement according to ~~one of claim[[s]]~~ 17, wherein to 19, ~~characterised in that~~ an inlet [[(40)]] for the protective gas is provided in the immediate vicinity of the at least one emitter (46, 48a, 48b, 52a, 52b).

21. (currently amended): Arrangement according to ~~one of claim[[s]]~~ 16, wherein to 20, ~~characterised in that~~ the housing [[(24)]] is covered with a reflecting layer in the vicinity of the at least one emitter (46, 48a, 48b, 52a, 52b).

22. (currently amended): Arrangement according to claim 21, ~~wherein characterised in that~~ the reflecting layer comprises a plurality of unevennesses.

23. (currently amended): Arrangement according to claim 21, ~~wherein or 22, characterised in~~ that the reflecting layer ~~includes~~ consists of an aluminium foil.

24. (currently amended): Arrangement according to claim [[s]] 16, ~~wherein and 17,~~ ~~characterised in that~~ a container open to a transporting plane is arranged in the housing [[(24)]], which container can be filled with the protective gas.

25. (currently amended): Arrangement according to claim [[s]] 16, ~~wherein and 17,~~ ~~characterised in that~~ a lock (34, 36) for respectively introducing and removing the object [[(12)]] is arranged at an inlet and at an outlet of the housing[[-(24)]].

26. (currently amended): Arrangement according to claim 25, ~~wherein characterised in that~~ an inlet for protective gas is arranged within the entry-side lock in such a way that a cavity present in the object is flushed out with protective gas.

27. (currently amended): Arrangement according to claim [[s]] 16, ~~wherein and 17,~~ ~~characterised in that~~ a device [[(42)]] is provided for removing oxygen from the atmosphere contained within the housing[[-(24)]].

28. (currently amended): Arrangement according to claim 27, ~~wherein characterised in that~~ the device [[(42)]] for removing oxygen comprises a catalyst [[(92)]] for the catalytic binding of the oxygen.

29. (currently amended): Arrangement according to claim 27, ~~wherein or 28, characterised in~~ that the device [[(42)]] for removing oxygen comprises a filter for absorbing oxygen.

30. (currently amended): Arrangement according to one of claim [[s]] 27, ~~wherein to 29,~~ ~~characterised in that~~ the device for removing oxygen comprises a filter for adsorbing oxygen.

31. (currently amended): Arrangement according to claim 1, wherein one of the preceding claims, characterised in that a reflector (55, 100) for concentrating the radiation is associated

with the at least one emitter [[(46)]], the shape of which reflector can be altered in order to change the radiation concentration.

32. (currently amended): Arrangement according to claim 1, wherein one of the preceding claims, characterised in that a moveable reflector is associated with the at least one emitter (46, 48a, 48b, 52a, 52b) on the side facing away from the object.

33. (currently amended): Arrangement according to one claim 1, wherein one of the preceding claims, characterised in that it comprises a preheating zone [[(22)]] for removing solvents from the material of the coating.

34. (currently amended): Arrangement according to one of claim[[s]] 1, further comprising to 32, characterised in that it comprises a preheating zone [[(22)]] for gelling pulverulent material of the coating.

35. (currently amended): Arrangement according to claim 1, further comprising one of the preceding claims, characterised in that it comprises a post-heating zone [[(26)]] for completing the hardening.

36. (currently amended): Arrangement according to claim 1, wherein one of the preceding claims, characterised in that the electromagnetic radiation is UV light.

37. (canceled)

38. (new): The arrangement of claim 18, wherein the protective gas is carbon dioxide.

39. (new): The arrangement of claim 19, wherein the protective gas is helium.